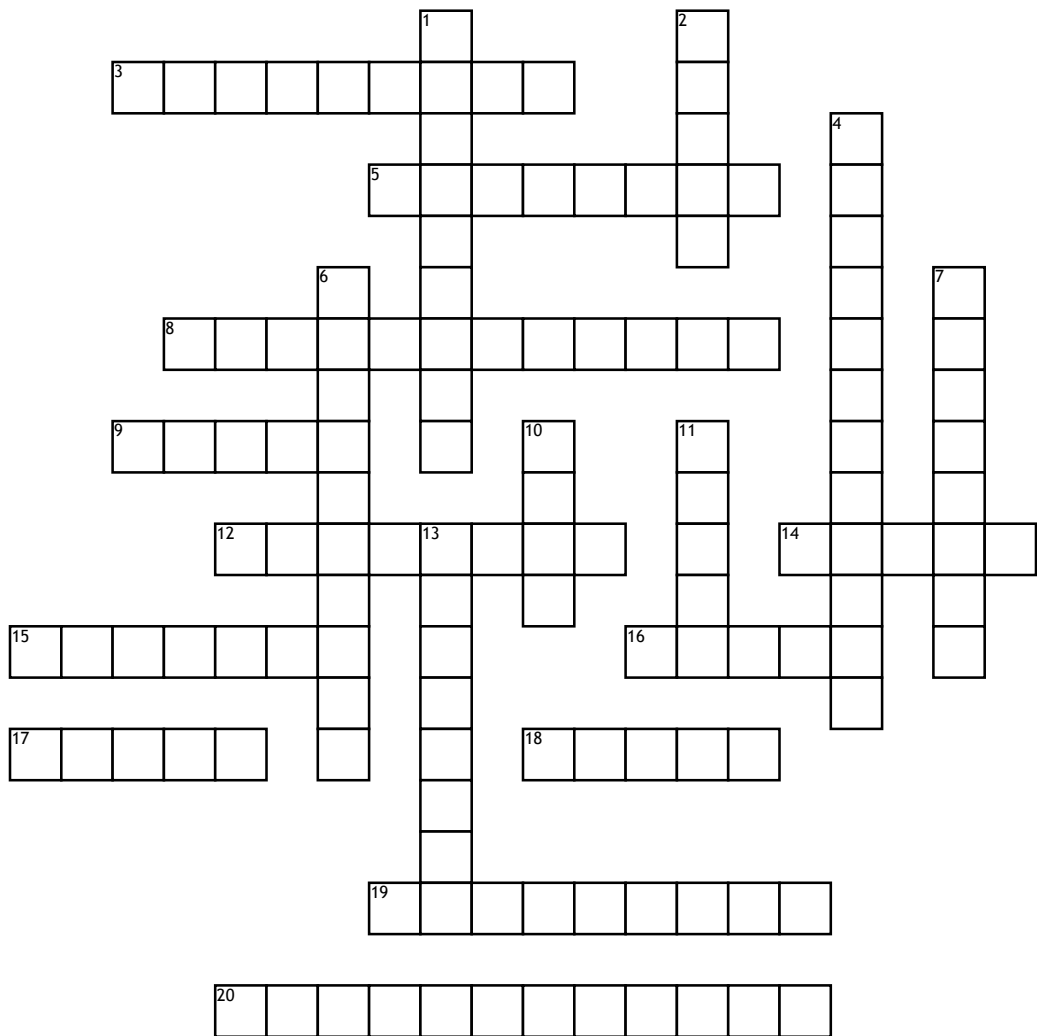


Chapter 3: Sound Measurement



Across

- 3. What is the number of complete oscillations of a vibrating body per unit of time. In acoustics, the unit of measurements is cycles per second (cps) or hertz (Hz)?
- 5. What is the speed of a sound wave in a given direction?
- 8. What is the ability of an animal, or human, to determine the specific location of a sound source?
- 9. What is the impetus required to institute or alter the velocity of a body?
- 12. What is the force over an area of surface?
- 14. What is a series of moving impulses set up by a vibration?
- 15. What is the process by which the threshold of a sound is elevated by the simultaneous introduction of another sound?

- 16. What is the relationship in time between two or more waves?
 - 17. What is the complete sequence of events of a single sine wave through 360 degrees?
 - 18. What is used to measure frequency and uses the abbreviation (Hz)?
 - 19. What is the extent of the vibratory movement of a mass from its position of rest to that point farthest from the position of rest?
 - 20. What is the reduction of the amplitude of a sound wave to zero. This results when two tones of the same frequency and amplitude are introduced 180 degrees out of phase
- Down**
- 1. What is the amount of sound energy per unit of area?

- 2. What is a periodic variations of the amplitude of a tone when a second tone of slightly different frequency is produced simultaneously?
- 4. What two word phrase is a sound wave made up of a number of different sinusoids, each with a different frequency?
- 6. What is The distance between the same point (in degrees) on two successive cycles of a tone?
- 7. What is the subjective impression of the power of a sound. The unit of measurement is the sone?
- 10. What is measured using erg (e) or joule (J)?
- 11. What is the subjective impression of the highness or lowness of a sound; the psychological correlate of frequency?
- 13. What is the sum of the components of a complex wave?

Word Bank

Work	Pitch	Force	Frequency	Velocity
Amplitude	Beats	Wavelength	Spectrum	Localization
Phase	Cancellation	Hertz	Cycle	Loudness
Masking	Intensity	Pressure	Complex Waves	Waves